KV 125 XL sileo

Centrifugal circular duct fan <125W

Item number: 25369

Variant: 230V 1~ 50Hz

- Speed-controllable
- Quiet-running
- Increased efficiency
- Integral thermal contacts
- Can be installed in any position - duct or wall mounted
- Can be installed outdoors
- Maintenance-free and reliable

The KV sileo series is designed for installation in ducts. All KV-fans have minimum 25 mm long spigot connections. The FK mounting clamp facilitates easy installation and removal, and prevents the transfer of vibration to the duct. The fans have backward-curved blades and external rotor motors. KV sileo fans can be speed-controlled via a stepless thyristor or a 5-step transformer.

To protect the motor from overheating the fan has integral thermal contacts with manual reset.

The casing is manufactured from galvanised sheet steel and folded which gives the fan a close to air tight casing, wet room applications of the fan are possible due to the air tight casing.

Technical parameters

Nominal data		
Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	52	W
Input current	0.228	A
Impeller speed	2,387	rpm
Air flow	max 385	m³/h
Capacitance of capacitor	1.5	µF
Temperature of transported air	max 70	°C
Max temperature of transported air, when speed controlled	70	°C

Sound data		
Sound pressure level at 3m (20m² Sabin)	41	dB(A)

Protection/Classification		
Enclosure class, motor	IP44	
Insulation class	B	

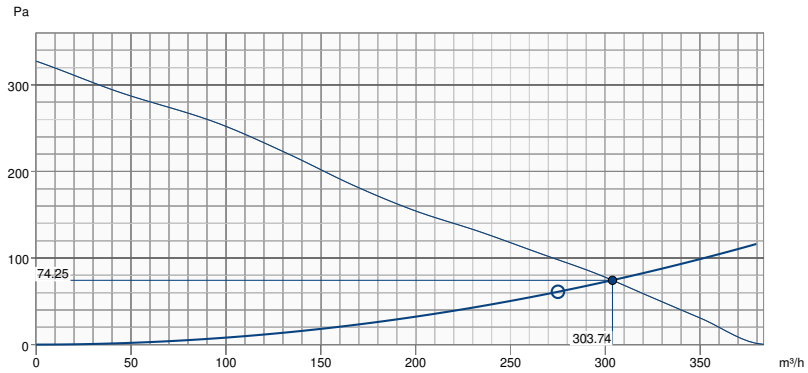
Data according to ErP		
Energy class, Basic unit	E	
Energy class, Local demand	C	
ErP ready	ErP 2016; ErP 2018	

Dimensions and weights		
Duct dimension; Circular, inlet	125	mm
Duct dimension; Circular, outlet	125	mm
Weight	2.8	kg

others		
Duct connection type	Circular	
Motor type	AC	

Performance

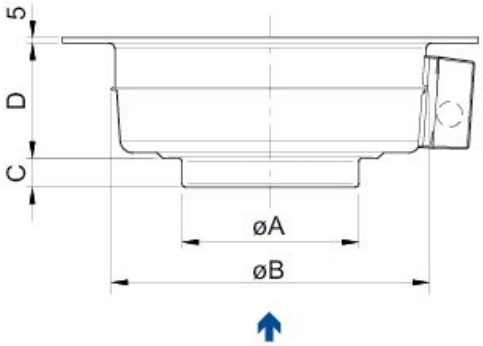
Performance curve

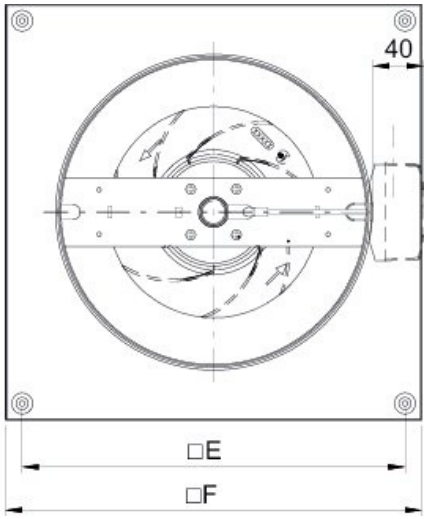


Hydraulic data	
Required air flow	275 m³/h
Required static pressure	61 Pa
Working air flow	304 m³/h
Working static pressure	74 Pa
Air density	1.204 kg/m³
Power	51.7 W
Fan control - RPM	2397 rpm
Current	0.20 A
SFP	0.613 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	47	55	66	61	68	59	52	46	71
Outlet	dB(A)	49	54	63	68	67	63	55	48	72
Surrounding	dB(A)	24	20	28	41	45	42	36	29	48
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	41
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	27

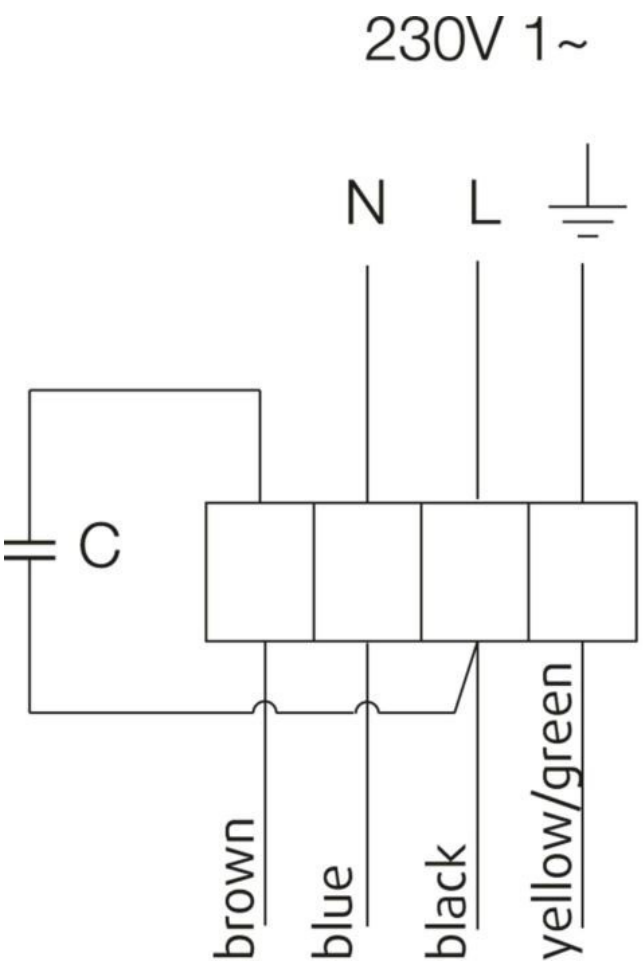
Dimension





	ØA	ØB	C	D	□E	□F
KV 125 XL/ KV 125 XL EC	124	246	26	127	304	334

Wiring



Ecodesign

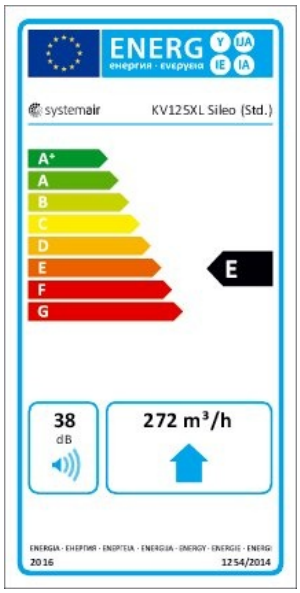
Product		
Trade name	Systemair	
Product name	KV 125 XL Sileo	

Basic unit		
ErP compliance	2016	
SEC Average	-10.69	kWh/(m².a)
SEC Cold	-27.09	kWh/(m².a)
SEC Warm	-1.3	kWh/(m².a)
SEC Class	E	
Unit category	RVU	
Unit type	UVU	
Drive	External MSD or VSD	
Heat recovery type	None	
Temperature ratio (UVU)	Not applicable	
qv max	263	m³/h
P max	51	W
Sound power level LWA	37	dB(A)
qv ref	0.184	m³/s
Ps ref	50	Pa
SPI	0.206	W/(m³/h)
CTRL	1	
MISC	1.1	
x-value	1.5	
External Leakage	5	%
AEC average	258	kWh
AHS Cold	258	kWh
AEC warm	258	kWh
AHS Average	17	kWh/a
AHS Cold	34	kWh/a
AHS Warm	8	kWh/a

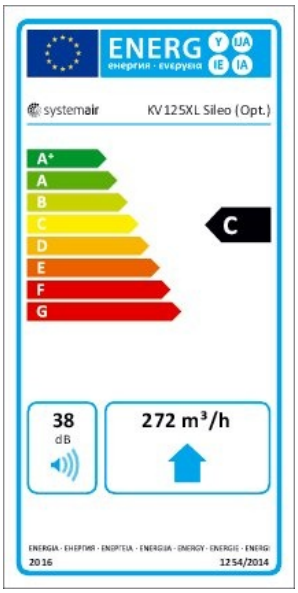
Units with local demand control		
ErP compliance	2018	
SEC Average	-24.91	kWh/(m².a)
SEC Cold	-51.98	kWh/(m².a)
SEC Warm	-9.41	kWh/(m².a)
SEC Class	C	
Unit category	RVU	
Unit type	UVU	
Drive	External MSD or VSD	
Heat recovery type	None	
Temperature ratio (UVU)	Not applicable	
qv max	263	m³/h
P max	51	W
Sound power level LWA	37	dB(A)
qv ref	0.0511	m³/s
Ps ref	50	Pa
SPI	0.206	W/(m³/h)
CTRL	0.65	
MISC	1.1	
x-value	1.5	
External Leakage	5	%
AEC average	135	kWh
AEC cold	135	kWh
AEC warm	135	kWh
AHS Average	28	kWh/a
AHS Cold	55	kWh/a
AHS Warm	13	kWh/a

Energy class label

Energy class, Basic unit



Energy class, Local demand



Accessories

- RE 1,5 Speed control (5000)
- REPT 6 Digital regulator (5698)
- REV-3POL/03-7,5kW R/Y (33978)
- VKK-125 Back draft damper (1624)
- DTV500A (96807)
- IGK-125 Wall Grid (1631)
- RT 0-30 Room Thermostat (5151)
- T 120 Timer (5165)
- CBM 125-1,2 230V/1 Duct heater (5480)
- CWK 125-3-2,5 Duct cooler,circ (30021)
- FGR 125 Filter cassette (1804)
- LDC 125-1200 Silencer (5997)
- LDC 125-600 Silencer (5190)
- RSK-125 Back draft damper (5598)
- VK-25 Louvre shutter (5640)
- REE 1 Speed control (5314)
- REU 1.5 Speed control (5004)
- SG 125 Protection guard (5607)
- CO2RT-R-D Transmitter (6993)
- HR1 Room Humidistat (215150)
- Presence detector/IR24-P (6995)
- Safety switch 2-pole grey (210679)
- VBC 125-3 Water heating batt (9839)
- CBMF 125-1,2 230V/1 Duct heate (12242)
- FFR 125 Filter cassette (1768)
- FK 125 Fast clamp (1608)
- LDC 125-300 Silencer (53722)
- LDC 125-900 Silencer (5191)
- VBC 125-2 Water heating batt (5457)

Documents

- INSTALLATION__OPERATION_AND_MAINTENANCE_INSTRUCTION_K__KV__PRIO__EN_006.PDF

Specification

KV 125XL TW Circular duct fan

DN125, 230V50Hz, 1~, imp. backw. curved

Circular duct fan for wall mounting, easy and direct installation in ducts.

Galvanized sheet steel housing.

Circular connection spigot, length 25mm, acc. to EN1506:1997

Free-running, backward curved centrifugal impeller made of plastic.

Balancing made to G 6.3, motor compl. with impeller statically and dynamically balanced in two planes acc. to DIN ISO 1940 T.1.

Voltage controllable external rotor motor, maintenance-free, the motor is placed inside the air flow for cooling. Integral thermal contacts with manual reset acc. to EN 60335-2-80, speed-controlled via a 5-step transformer or a stepless thyristor. Silent, long-life ball bearings. Terminal box (IP55) on the casing.

Mounting brackets included in delivery.

For indoor, outdoor installation as well as in wet areas.

Air leakage class C acc. to EN 12237:2003.

Installation in any mounting position.

PRODUCT: SYSTEMAIR

TYPE: KV 125XL TW

Item no.1210